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ABSTRACT OF THE DISCLOSURE

APPARATUS AND METHOD FOR PROGRAMMABLE CONTROL OF LASER DIODE MODULATION AND OPERATING POINT

An apparatus and method for programmable control of laser diode modulation and operating point provides control for laser diodes having widely varying characteristics, such as laser diodes from a variety of manufacturers. Operating a wide variety of lasers is useful for implementation of a device independent integrated circuit for control of a laser diode. Laser diode maximum AC drive levels, AC input circuit response and DC operating point are programmed via a programmable storage coupled via control circuits to a drive amplifier and a bias circuit. The laser diode modulation control may be combined with laser diode bias control in a single integrated circuit, providing a single-chip solution for laser diode transceiver module manufacturers. The programmable storage may be one-time programmable for factory customization of laser diode transceiver module diodes, or may be an electrically alterable storage.